

5 **METHOD OF MANUFACTURING AN ON-CHIP TRANSFORMER BALUN**

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10/11/06 10 This patent application is claiming priority under 35
USC § 121 to co-pending patent application entitled On-Chip
Transformer balun having a serial number of 10/055,425 and
a filing date of 1/23/02, which is patent No 6,801,114.

TECHNICAL FIELD OF THE INVENTION

15 This invention relates generally to radio
communication technology and in particular to transformers
used within radios.

BACKGROUND OF THE INVENTION

20 Two-way radios, which may be incorporated in wireless
communication devices, are known to include an antenna, a
transformer, an antenna switch, a receiver section, and a
transmitter section. The antenna switch couples either the
receiver section or the transmitter section to the antenna
25 via the transformer. The transformer may be a transformer
balun (balanced/unbalanced) and is generally used to
convert single ended signals into differential signals and
conversely to convert differential signals into single
ended signals. For example, received RF signals via the
30 antenna are converted into differential signals, which are
provided to a low noise amplifier of the receiver section.
Conversely, differential signals from the transmitter
section are converted into single ended signals that are
provided to the antenna.